## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29167

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A61K 39/385, 39/02, 39/09, 39/00  US CL : 424/197.11, 234.1, 244.1, 184.1, 236.1, 831						
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED						
B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 424/197.11, 234.1, 244.1, 184.1, 236.1, 831						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap		Relevant to claim No.			
Y	WO 02/34771 A2 (CHIRON S.P.A.) 02 May 2002	(02.05.2002), pages 7, 841 and 842.	1-17			
Y	US 6,372,222 B1 (MICHON et al) 16 April 2002 (	6.04.2002), claims and Examples.	1-17			
Y	US 6,426,074 B1 (MICHEL et al.) 30 July 2002 (30.06.2002), Example 14.		1-17			
			-			
		<b></b>				
Further	documents are listed in the continuation of Box C.	See patent family annex.				
	pecial categories of cited documents:  t defining the general state of the art which is not considered to	"T" later document published after the in priority date and not in conflict with understand the principle or theory un	the application but cited to			
"E" earlier a	ticular relevance oplication or patent published on or after the international filing	"X" document of particular relevance; the considered novel or cannot be considered.	lered to involve an inventive			
	t which may throw doubts on priority claim(s) or which is cited	step when the document is taken alor  "Y" document of particular relevance; the considered to involve an inventive st	ciaimed invention cannot be			
(as speci	·	combined with one or more other suc combination being obvious to a perso	h documents, such			
*O* document referring to an oral disclosure, use, exhibition or other means		"&" document member of the same patent	family			
priority.	t published prior to the international filing date but later than the		and the second s			
	actual completion of the international search (4 (15.04.2004)	Date of mailing of the international sea	DEADE ZUUP			
	sailing address of the ISA/US	Authorized officer	And the ter			
Ms Co	il Stop PCT, Attn: ISA/US mmissioner for Patents D. Box 1450	(S. Devi, Ph.D.				
Ald	7. BOX 1430 1xandria, Virginia 22313-1450 0. (703)305-3230	Telephone No. (703) 308-0196				

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This	internat	ional report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.		Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	6.4(a).	Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule		
Box	n ot	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)		
		tional Searching Authority found multiple inventions in this international application, as follows: Continuation Sheet		
1.	$\boxtimes$	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.		
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite		
3.		payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:		
Remark on Protest The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

Form FCT/ISA/210 (continuation of first sheet(1)) (July 1998)

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BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LANTH This application contains claims directed to more than one species of the generic invention because they are not so linked as to form a single general inventive con	invention. These species are deemed to lack unity of
In order for more than one species to be examined, the appropriate additional examined:  GBS saccharide antigen species: serotype Ia; serotype Ib; and serotype III.	amination fees must be paid. The species are as
The claims are deemed to correspond to the species listed above in the following Claims 1 and 17.	manner:
The species listed above do not relate to a single general inventive concept under species lack the same or corresponding special technical features for the followin The saccharide antigen species listed above do not share significant structures.	ig reasons:
	•
Continuation of B. FIELDS SEARCHED Item 3: DIALOG, WEST, EMBASE, BIOSIS, MEDLINE GBS or group B streptococce?, (Ia or Ib or III), GBS79, GBS80 to GBS 691, inver	ntor's name

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